# The Christian Messenger.

HALIFAX. N. S., JUNE 17, 1874.

ALMANAC FOR JUNE									
t Quarter, w Moon,	June	7th, 14th.	9h. 2h.	4m 38m	morning.				
st Quarter,					afternoon				

Last Quarter, June 7th, 9h. 4m morning.														
New Moon, "14th, 2h. 38m, morning.														
New Moon, "14th, 2h. 38m. morning. First Quarter, "21st, 3h. 47m. afternoon.														
Full Moon, Zato, 20. 54th, morning.														
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THE TIDES .- The column of the Moon's Southing gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro.

High water at Pictou and Cape Tormentine, 2 hours and 11 minutes later than at Halifax At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes later, and at St. John's, Newfoundland 20 minutes earlier, than at Halifax. At Charlottetown, 2 hours 56 minutes later. At Westport, 2 hours 54 minutes later. At Yarmouth, 2 hours 20 minutes later.

FOR THE LENGTH OF THE DAY .- Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising. FOR THE LENGTH OF THE NIGHT -Sub-

wac, the time of the sun's setting from 12 hou, and to the remainder add the time of rising n. x' worning.

#### MRS. AINSLEY'S Arthranodyne Liniment.

This magical pain curer having been in L use among private friends for a number of years is now offered to the public as a superlative remedy for

RHEUMATIC PAINS, TOUTH ACHE, NEURALGIA, SPRAINS, &c. Manufactured by Mrs. Ainsley, Halifax.

Lunenburg, August 20th, 1873.

MRS. AINSLEY, DEAR MADAM,-Having found the efficacy of your very in valuable Liniment in the case of sore throat which by two applications I was entirely relieved both of the swelling and soarness, I was induced to apply it to the parts affected by a severe attack of Lumbago. After having my back, loin and thigh thoroughly rubbed with the mixture, I was enabled to sleep comfortably and in a few days to walk about the field. would further add for your satisfaction that my friend with whom I board has been entirely re lieved from a pain in his shoulders, which drove him nearly to madness, by freely using the Liniment twice. Also the wife of ore of my neighbours who was suffering dreadfully from an attack of acute rheumatism especially in her joints and legs, told me that she had scarcely applied it to parts affected before she felt immediade relief. I have reason to be lieve the Arthranodyne Liniment the best now

Your obedient servant, REV. D. S. SHAW. Wholesale Agents-Brown Brothers & Co Forsythe & Co.: Avery Brown & Co., Halifax.

#### DR. R. R. CUNNINGHAM, DENTIST. 40 GERMAIN St., St. JOHN, N.B.

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establishment. Persons from Nova Scotia visiting St. John, can have artificial denture supplied with less detention than at any other office. Teeth filled with Pure Gold; also, with all the best composition fillings known.

> Dr. R. R. Cunningham, 40 GERMAIN St.,

March 12.

## OUIFITS FREE.

Employment at your homes or travelling. The work is congenial, honorable, and pays the best of anything ever before offered.— Cash wages, samples, and complete outfit sent free. Address at once,

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May 3.

### Hats and Caps.

MYE have now on hand a full Stock of all VV kinds, including the

NEWEST STYLE : to which we invite the attention of our friends, both at

Wholesale and Retail. Our prices are as low as any in the city. Silk Hats made to order by Conformateur Measure, without extra charge.
EVERETT BROTHERS, 100 Granville St.

Agricultural.

WHAT CROPS LEAVE IN THE SOIL. land about to be laid down to grass, but it is a very exhaustive crop whether that latter be potatoes or turnips to succeed well, requires a thorough a bountiful supply of well rotted mantells upon succeeding crops. Po-

important information up on the value | - the vegetable fiber-is principally as a fertilizer of the roots of clover and carbon. the different grain crops, and is worth mote distances from market :-

STUBBLE AND ROOTS REMAINING AFTER HARVEST.

	Total Dry Substance.	Organic Matter	Ash.	Nitrogen.	Potseb.	Pho phoric Acid.
Lucerue		8108	1204 1927	137 193	37	40 75
Red Clover			10 47	124	48	40.00
Peas		2560 1736		67	11	15
Rye			1653	Control of the control of the control of the	1000	26
Wheat			1.94		19 25	
Oats Barley	1999				10	

elements. Red clover leaves 193 lbs.

plain the great and well known value often excite his attention and wonder. of clover as a preparatory crop for wheat and for all other crops which are not manured with nitrogen, potash tigation was carried.

gen of the clover comes wholly or in it. partly from the soil or from the air, it is certainly taken from a condition in which it is of little use to most one; so that, practically the clover is a creator of nitrogen in the soil, as it is an efficient purveyor of its latent

supplies of potash and phosphoric acid. Root crops were not included in the examination, but it is well known that they leave in the soil only a few fibrous roots, which can add but little to its fertility; and experience teaches that of all our crops, roots (unless fed off upon the land) are the most exhausting. A corresponding result would be found to obtain in the case of Indian corn. In fact, the value of any crop to the crop which follows it, is found in practice to be very nearly what the above table would indicate, except in the case of oats, which injure the soil by mechanical action, their roots " clodding" the ground into lumps. This crop is more deleterious than barley, although leaving more residue in the soil .-American Agriculturist.

Trade increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land .--Lord Chatham.

## Scientific.

-It is well understood that a root seventy days (from the time when of the timber wanted-say forty feet crop is an excellent preparation for these lines were written, August 5.) in a line out from the tree and allow sinch we planted the kernels of corn for the stump; then set up your stake, from which have sprung the enormous lay down on your back with your heels growth of stalks, leaves, and flowers in at the stake; look through the stake, or carrots. Either of the latter crops yonder corn field. The kernels placed and the place where the eye strikes in the earth weighed but a few pounds; the tree will be the length of the timpulverization of the soil in addition to | the products of growth now moving in | ber. The ground ought to be level; the wind probably weigh six or eight | if not, allowance can be made. ure, and this treatment of course tons to the acre. What is the nature of this organized material which has tatoes will grow well planted on warm | so suddenly appeared, and from whence manure, and requiring less labour than has itc ome? Analysis of the cornturnips or carrots, a greater breadth stalks and leaves shows that water enters of land can be planted, and thus a largely into the substance as a conlarger piece manured, and labour at pre- stituent, and then we find a little sugar, sent prices is exhaustive on the pocket. and small amounts of potash, lime The following article gives some phosphates, silica, and the remainder

During the warm days and nights, a careful perusal. By sowing clover | while we have been attending to busiwith grain as a preparation for laying ness and sleeping, the silent, unseen down to meadow, much plant food forces of nature have been ceaselessly could be furnished at a small cost, and at work in our corn-fields, and from a system of good farming initiated that | earth and air have been elaborated this would just suit persons situated at re- immense product of vegetable matter. From the earth has been pumped the water and the chemical salts; from the air has been isolated and appropriated the carbon; and all the complex vital process, so wonderful, so iucomprehensible, have gone forward without any aid from us.

The farmer has much of his motive power and most of his manufacturing skill gratis. He arouses the slumbering forces of nature by dropping the dently gratuitously. It is difficult to covered in the soil after heavy rains. form adequate ideas of the immense These figures, relating to a single expenditure of force required to mature experiment, are, of course, of only gen- an acre of corn. Consider the numeral value; at the same time they are, ber of tons of water that have to be for hot water bottles and such like in a general way, very useful. They raised during the season from one to appliances for restoring warmth to the show, for instance, that the more five feet from the earth, and also sick. It is said to weigh less, retain delicate-rooted grain crops leave com- consider the large expenditure of heat longer, and does not chill when paratively little residue in the soil- chemical energy or force, in the barley less than 2-5 as much as rye, decompositions, constantly going forand only about 1.5 as much as red ward day and night. The carbon, clover, which, in return for a few most of it, has to be torn from its emquarts of seed, after having yielded an | brace with oxygen before it can be asabundant crop, leaves for the enriching | similated, and then the birth of new of the soil about 41 tons of root and combinations is only accomplished stubble. Nor is the total amount of through the agency of force. We live material left in the soil of more conse- in a world of wonders, and the farmer quence than the quantity of particular | certainly possesses extraordinary opportunities of observing the processes of nitrogen, while wheat leaves only 24 of nature in all their vastness and comlbs. The former leaves four times as plexity. A new delight will be furmuch potash, and more than six times | nished him if he will study what science as much phosphoric acid as the latter. has unfolded regarding the laws and These comparisons sufficiently ex- mysteries of the universe, which so

MEDICINAL USE OF NETTLES. -Dr. and phosphates. In the field on which | Nicholl says that the greatest preventhis examination was made, the clover tive of yellow fever in Bermuda is of an acre left enough nitrogen for 116 dried nettle, powdered and used as a bushels of wheat, phosphoric acid condiment in all cooking. The Doctor enough for 114 bushels, and potash resides on the I-le of Jersey, and he Do., enough for 73 bushels. It should be uses it successfully among his patients. remembered, too, that most of this He preserves it like herb teas, and material is left in the best possible keeps it in a dry place. Dr. Thornton condition for use—as a part of readily | uses it as a styptic. He dips lint into decaying roots well distributed through | nettle juice and inserts it into a bleedthe soil and penetrating it to a con- ing nose, with quick effect. He also siderable depth. Indeed, particularly prescribes it for goitre, for which it is in the case of clover, there would be a a specific remedy. In this case he very considerable amount of root below | grinds fifteen of the seeds, and adminthe ten inches to which only the inves- isters once a day. The juice of the nettle has a singular effect on steel, Whether (as is unknown) the nitro- which becomes flexible by immersion

-Boston Journal of Chemistry.

TO IMPROVE THE APPEARANCE OF FURNITURE. - Take a soft sponge, wet crops, and is converted to an available with clean cold water, and wash over Margaree, C. B.-Lachlen McDonald. the article. Then take a soft chamois skin, and wipe it clean. Dry the skin as well as you can by wringing it in your hands, and wipe the water off the furniture, being careful to wipe only one way. Never use a dry chamois on varnish work. If the varnish is defaced and shows white marks, take linseed oil and turpentine in equal parts; shake well in a vial, and apply a very small quantity on a soft rag until the color is restored; then with a clean soft rag wipe the mixture off. In deeply carved work, the dust cannot be removed with a sponge. Use a stiff-haired paint brush instead of a sponge.

A COMPOSITION FOR COVERING HOUSE ROOFS .- Take one measure of fine sand, two of sifted wood ashes, and three of lime, ground up with oil. Mix thoroughly and lay on, with a painter's brush, first a thiu coat, and then a thick one. This composition is not only cheap, but it resists fire well.

How to MEASURE THE LENGTH OF A TREE. - Take a forked stick; measure the length so that it will come up GROWTH OF CORN.-It is about to your eyes; then measure the length

> PRESERVING WOODEN TAPS FOR CASKS .- The articles should be plunged in paraffin to about 248 o Fah, until no air bubbles rise to the surface of the melted material. They are then allowed to cool, and the paraffin is removed from the surface, when nearly congealed, by thorough rubbing. Taps thus treated, it is said, will never split or become impregnated with the liquid, and may be used in casks containing alcoholic liquors.

A NEW APPLICATION OF GYPSUM. -Gypsum mixed with four per cent of powdered marshmallow root will harden in about one hour, and can then be sawn or turned, and made into articles of ornament or use, With 8 per cent of marshmallow, the hardness of the mass is increased, and it can be rolled out into thin plates, and painted or polished.

Arrow heads made of Chalcedony, jasper and flint are found in Japan identical with those found in this counseed into the earth, and then increase try. They are quite common on the and construction go forward indepen- island of Jesso, where they are dis-

> Corn meal, heated and placed in bags, is recommended as a substitute

Gum and paste are apt to become hard, and labels, etc., fall off after a time. A few drops of glycerine will prevent this. Too much glycerine, however, will spoil them.

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MUSICAL.

May 17.

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Vol. 2

A YOUNG frie England that the frankly yield the which as we all k Cranmer in the r antiquity of three Henry's Act of R ought not to be b affairs, we will e Our existence i oint in evidence hundred thousan Britain; to the £ cost of the main mention living 1 anknown outside p like a mushro In the end of t ommenced. Ca Missionary Socie tions. Soon after dark places of ou In the sevente m Devonshire Sc by the dominant in Wales, was In Keach, pastor of the Metropolitan Dalaune, a schol mists," was thro Defoe observes,

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